



**Igniting
Digital
Possibilities.**

Drag & Drop Content Management For Government Websites

Aaron Couch
Chris O'Donnell



Speakers



Aaron Couch - Dir. of Technology



Chris O'Donnell - Digital Strategist



Who is Promet?

- **Founded in 2003**, we are a full service web design and development agency with a passion for Drupal, WordPress and open source solutions.
- **Headquartered in Chicago**, we attract talent from around the world, and are adept at leveraging the technologies that drive collaborative excellence.
- **Our dedicated support** team offers full coverage 24/7.
- **We have launched hundreds** of Drupal sites since 2009.
- **We are a SBA certified** small business.





Thesis

- Government organizations often have complex data models that do not fit into SAAS solutions such as WIX or Squarespace
- Government organizations often like the drag and drop editing interfaces on WIX or Squarespace like services
- Open source provides the best values, features, outcomes
- Drupal can provide best of both worlds
 - Bespoke content models
 - Drag and Drop content creation



Our Example

We are going to show our strategy for achieving this value using:

- Emulsify
 - Component Driven theme
- Provus
 - Our Drupal kickstarter with reusable components



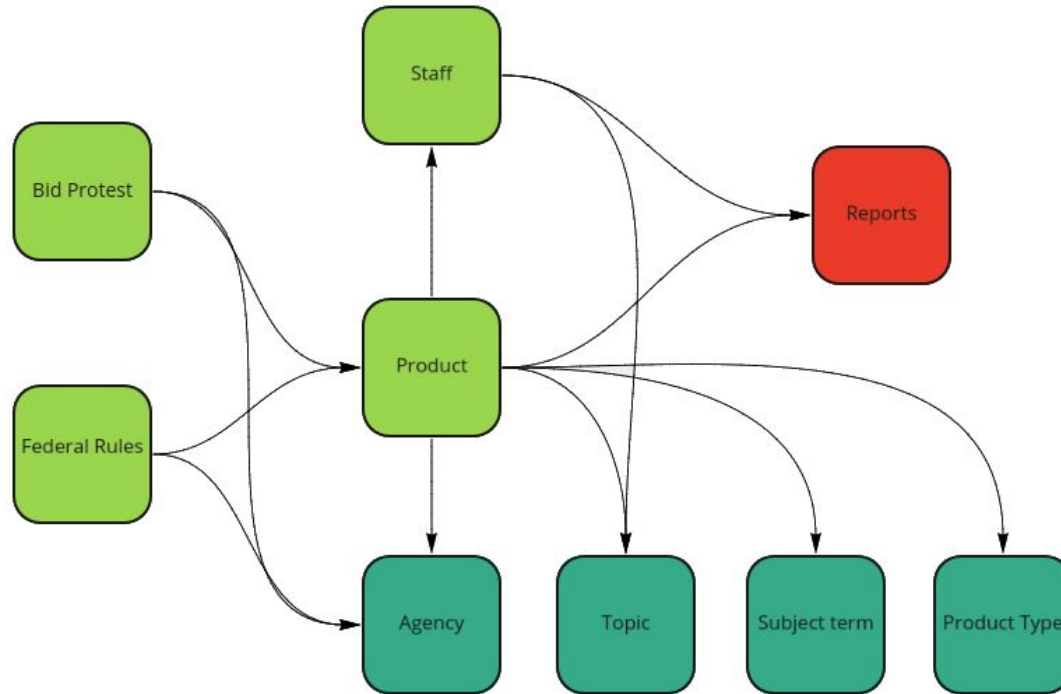
Government Agency Needs

- Improve digital services
- Push more transactions / interactions online
- Do more with less
- Meet increasingly high citizen / customer expectations
- React to changes quickly
- Create Once Publish Everywhere (COPE)





Some agencies are totally unique (GAO)



Agencies with Similar Mandate can be Different

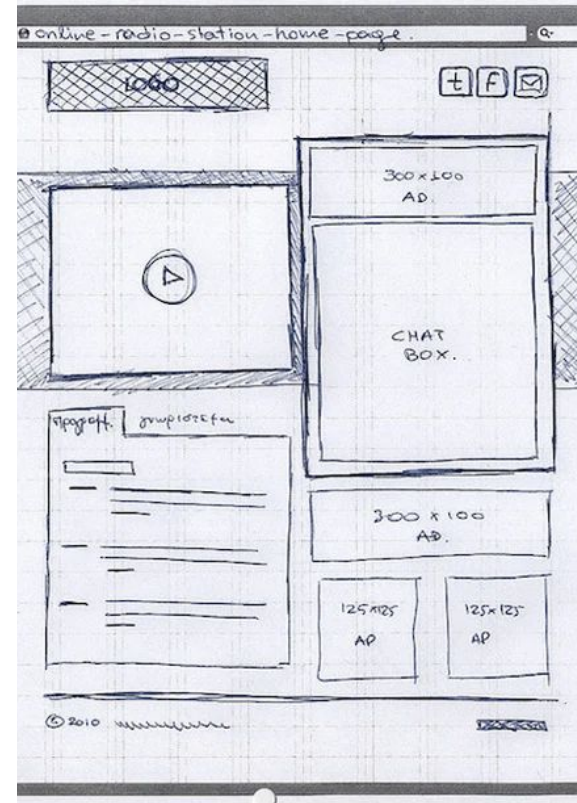


- Parking in Philadelphia has its own agency
- Parking in NYC managed by DOT



We put the same “things” in most sites

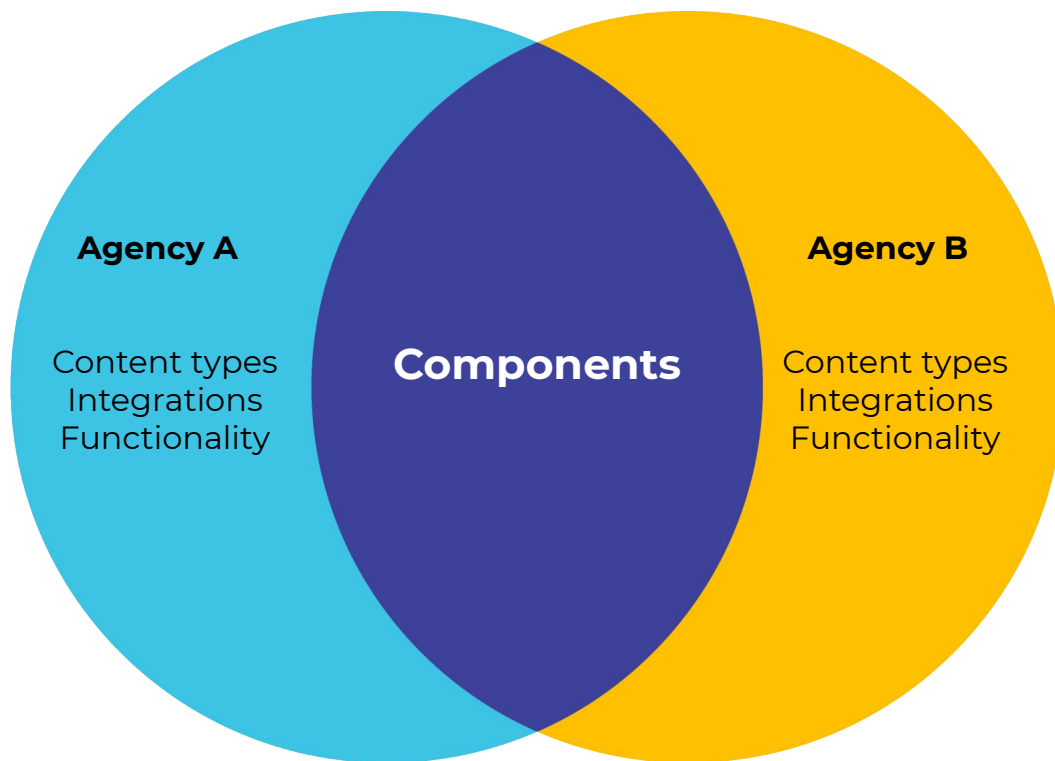
- Media galleries
- Lists of content
- Cards
- Search
- Maps
- Social media



We can call these “components”

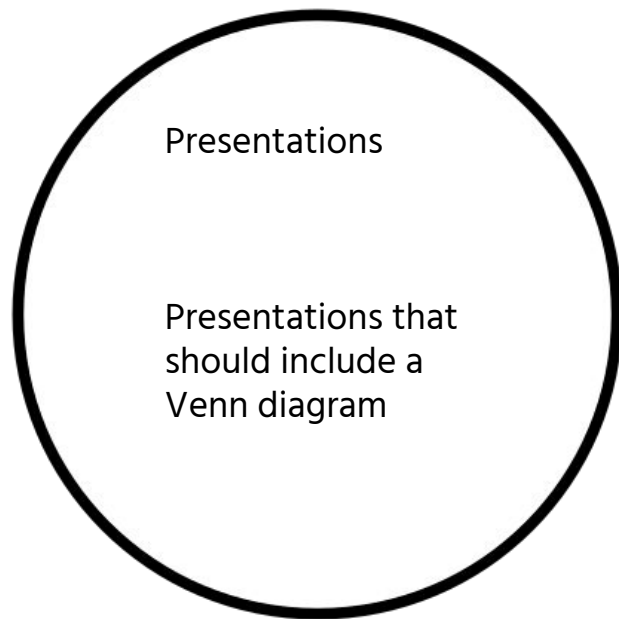


Overlap





Obligatory



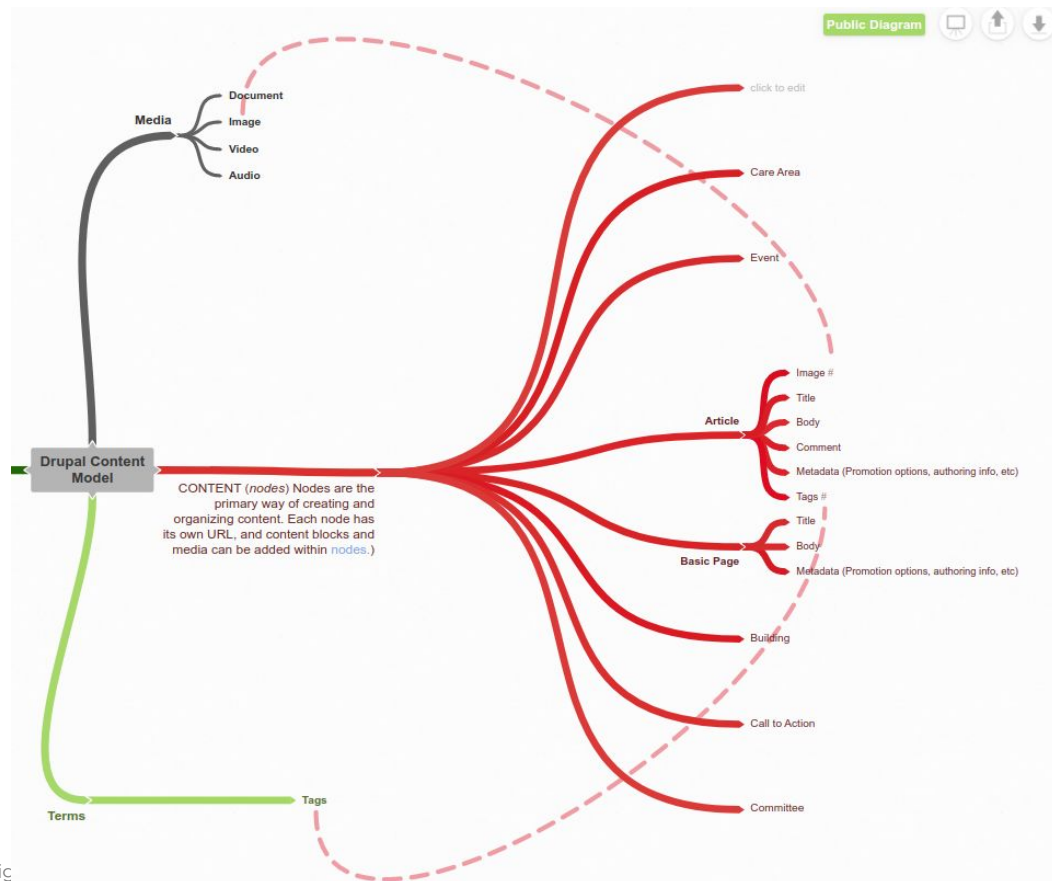


The Ideal

- Flexible content model that fit government needs
- Reusable components and features
 - Components that can be ready at the start of a project
 - Components that are easily “themable” for organizational brand
 - Components that can easily utilize bespoke content models

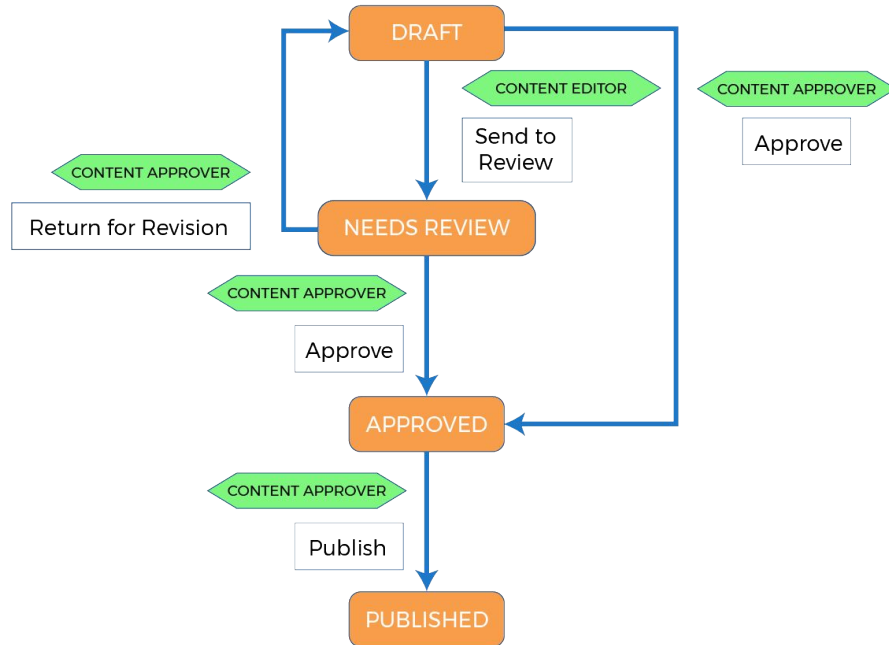


Drupal is Great at Content Modeling





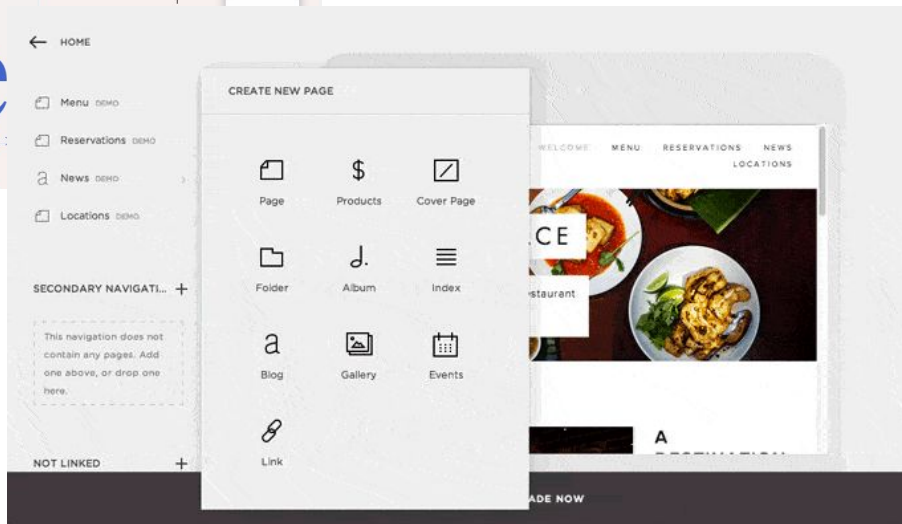
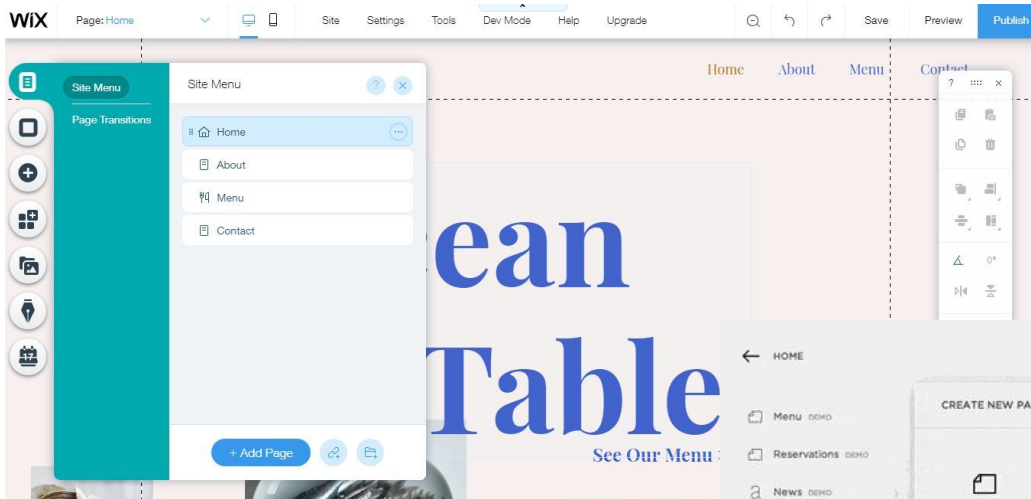
Drupal is Great at Users and Workflows



Different agencies have different needs for content access



Click-together Websites Save Time and \$



Click-together Empower Users

[images of Wix, godaddy]



Drupal Can Do Both

Drupal's CMS features combined with Layout Builder and Component Driven Theming deliver a Wix or Squarespace like site building experience.





Our Approach

Emulsify

Library of Flexible Blocks

Layout Builder

Provus “kickstarter”





Emulsify

Drupal 8+ (and Wordpress) Starter theme

Storybook component library

Supports both Twig and React components

Emulsify®
DESIGN SYSTEM



Component Driven Theming

The problem:

- Brittle CSS and JS
 - Selectors tied to context (where we put it on the page)
 - Selectors tied to backend (paragraphs vs views vs blocks)
- "Theming for the page design"
 - Globals are an anti-pattern
 - What happens when we want to do something the designer didn't design
- Can't re-use across projects
 - Theme files tied to Drupal implementation



Component Driven Theming

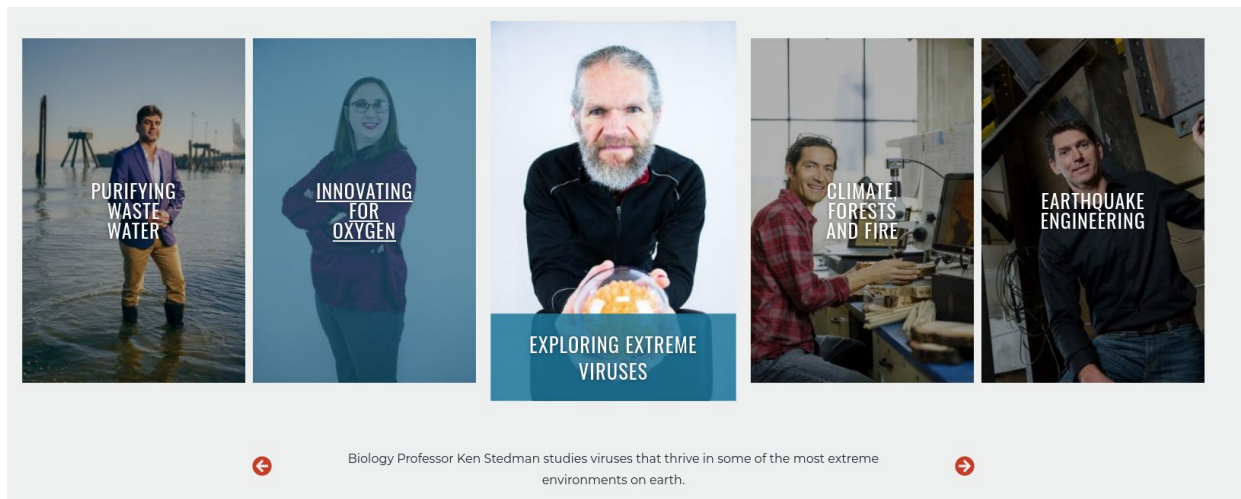
The solution:

- Methodology
 - Atomic design
- Isolation
 - Styles namespaced, isolated and limited to one selector
- Tools
 - Storybook component library



Illustration

A carousel component:





Traditional Drupal Theming

CSS:

/scss/partial/_paragraphs.scss

template:

/templates/field/field--**paragraph**--field-multiple-carousel

Javascript:

/js/theme.js


```
32 .paragraph--type--multiple-lists,
33 .paragraph--type--iframe-tour-calendar,
34 .paragraph--type--multiple-display-carousel,
35 .paragraph--type--multiple-display,
36 .paragraph--type--media-with-text,
37 .paragraph--type--featured-news_article,
38 .paragraph--type--featured-blog,
39 .paragraph--type--link-group-4-plus-with-images,
40 .paragraph--type--link-group-8-with-image,
41 .paragraph--type--link-group-4-with-images,
42 .paragraph--type--blog-twitter-facebook-block,
43 .paragraph--type--feature-stats,
44 .paragraph--type--feature-image-carousel,
45 .paragraph--type--featured-profile-block,
46 .paragraph--type--a-day-in-the-life-slider,
47 .paragraph--type--featured-news,
48 .paragraph--type--full-width-image-link,
49 .paragraph--type--cta-text-blocks,
50 .paragraph--type--short-hero,
51 .paragraph--type--page-title-block,
52 .paragraph--type--link-group-8-with-images {
53   padding-top: $padding-40;
54   padding-bottom: $padding-40;
55 }
56
57 &.events-vertical {
58   background-color: $psu-gray-100;
59   padding: $padding-30;
60 }
61
62 .paragraph--type--multiple-carousel-without-image h2.paragraph-without-image--title,
63 .paragraph--type--a-day-in-the-life-full h2.paragraph-title,
64 .paragraph--type--quicklinks-no-images h2.paragraph-title,
65 .paragraph--type--quicklinks h2.paragraph-title,
66 .paragraph--type--news-twitter-facebook-block h2.paragraph-title,
67 .paragraph--type--multiple-lists h2.paragraph-title,
68 .paragraph--type--multiple-display-carousel h2.paragraph-title,
69
```







Component Solution

All of the stuff and things are in one place:

Branch: **develop** ▾ / [components](#) / [03-organisms](#) / [group](#) / [carousel](#) / **3-item** /

 **prometjohn** OCDEV02-188: Add bg section styles to blocks. Fix link on card backgr... ...

..

 _carousel-3-item.scss	OCDEV02-188: Add bg section styles to blocks. Fix link on card
 carousel-3-items.js	OCDEV02-97 Fix for width of promo cards and other carousels
 carousel-3-items.twig	OCDEV02-184 block integration cleanup (#58)
 carousel-3-items.yml	OCDEV02-75 Fixes items in carousels (#32)



What Does that Look Like?

In Drupal you are just embedding:

Branch: **develop** ▾

/ [templates](#) / [block](#) / **block--link-group--carousel-3.html.twig**

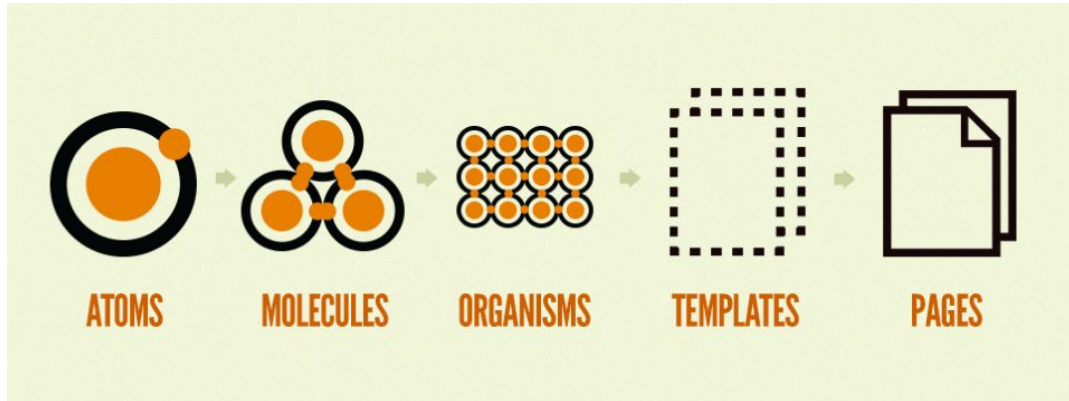
43 lines (42 sloc) | 1.59 KB

```
1  {#
2  /**
3   * @file
4   * Theme override to display a block.
24  */
27  #}
28  {% set group_base_class = 'carousel-3' %}
29  {% set section_style_class = 'section-bg-' ~ section_style %}
30
31  <div {{ bem('block', [group_base_class, section_style_class]) }}>
32  {% embed "@organisms/group/carousel/3-item/carousel-3-items.twig" with {
33    carousel_heading: label,
34  } %}
```



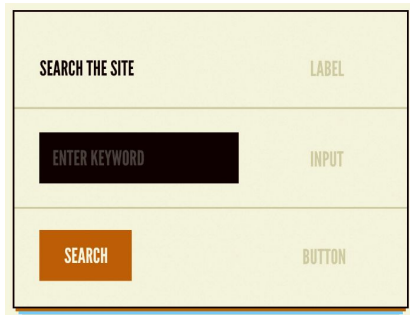
Atomic Design

- Methodology for creating design systems
- <http://atomicdesign.bradfrost.com/>

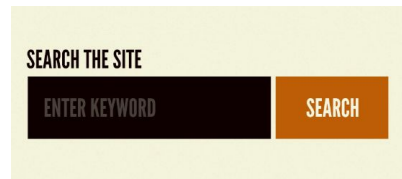




Atomic Design



atoms




molecules



organisms



Storybook




promet
source

Press "f" to search...


- Base
- Atoms
- Molecules
- Organisms
 - Banner
 - Content
 - Footer
 - Grids
 - Group
 - By The Number
 - Link Group Multicard Carousel
 - Link Group Carousel 3 Items**
 - Four Card Featured Group

LINK GROUP CAROUSEL




Cal Optima Recruitment 1

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim



Lactation Rooms 1

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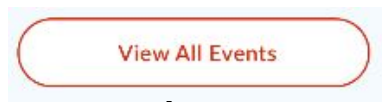
Stigma Free OC 1

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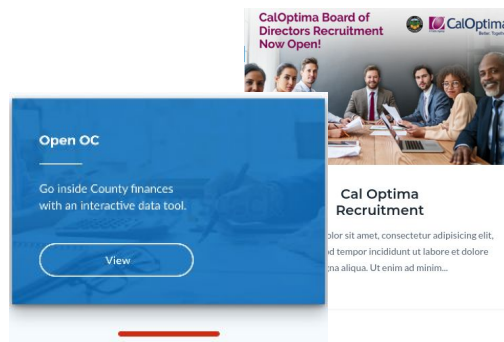


The New Workflow

Front-end dev creates components:



atoms



molecules



ABOUT

EVENTS

MAP

NEWS

CONTACT



TRANSLATE



organisms



New Workflow



**FRONT END DEVS DON'T
HAVE TO TOUCH DRUPAL**



QA Right Away

Accessibility and other QA outside of CMS:

Press "f" to search...

Base

Aloms

Molecules

Cards

CTA

Info

Menus

Person

Search

Status

Tags

Organisms

Banner

Content

Footer

Grids

Group

By The Number

Link Group Multicard Carousel

Link Group Carousel 3 Items

Four Card Featured Group

Quicklinks List

Quicklinks List Icons

Tabbed List

Column Row

Promo Card

Directors Recruitment Now Open!

Cal Optima Recruitment 1

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Lactation Rooms 1

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim

Take a step to be Stigma Free OC

You are invited to participate in **Stigma Free OC** by making a **Statement of Support** for creating a stigma-free environment for individuals and families living with mental illness and substance use disorders.

Join the movement.

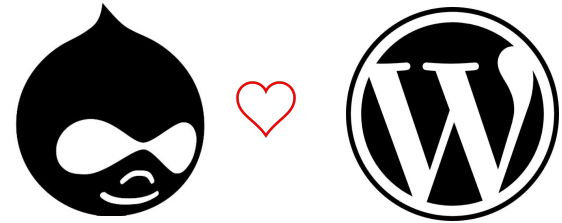
Stigma Free OC 1

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Why Emulsify?

- Component Library “setup”
- Component Library tool (storybook)



<https://emulsify.info/>



What Does that Look Like?

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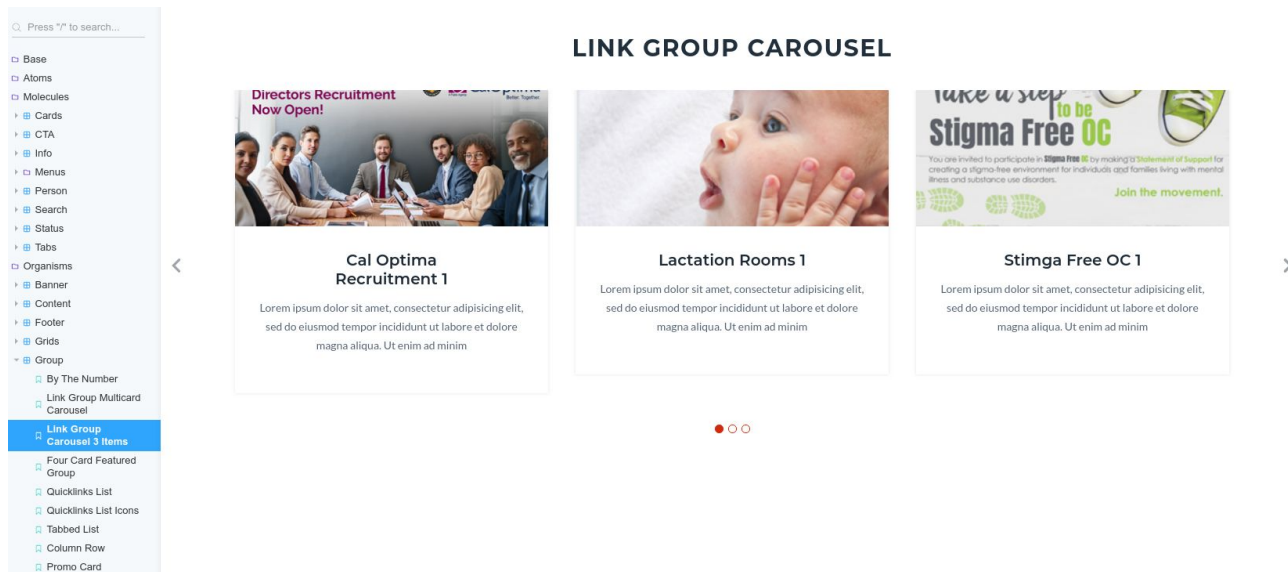
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32  {% embed "@organisms/group/carousel/3-item/carousel-3-items.twig" with {
33    carousel_heading: label,
34  } %}
```



What Does that Look Like?

Live preview in Storybook.js:

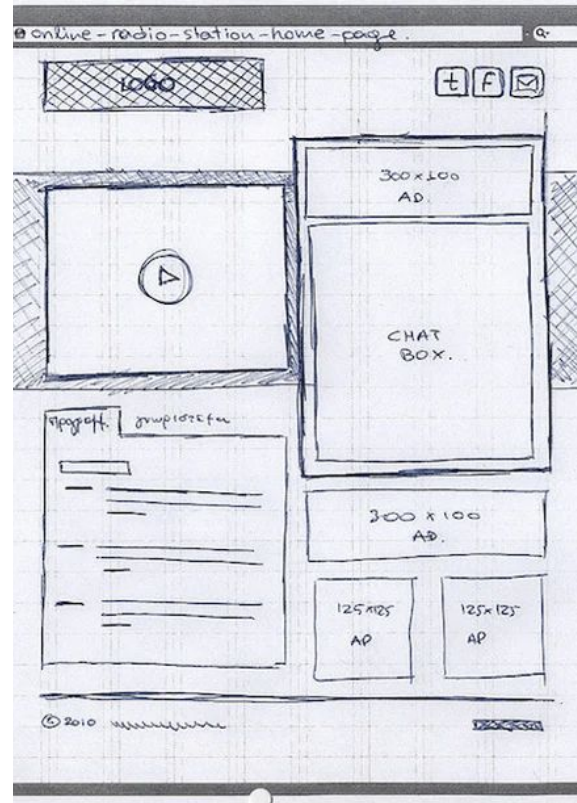




Drupal Implementation is Flexible

We built components not pages

Content editors can place items in contexts that weren't designed for





Paragraphs vs Blocks

- Blocks
 - In core, less code overhead
 - Can be applied to node edit form like paragraphs
- Paragraphs
 - Currently support better versioning
- Who cares?



Consistent View Modes

- View modes represent component type
- Applied to all content types
- Consistent field name for media types
 - Avoid “field_staff_image” and “field_event_image”



Layout Builder

+ Add section

✕ Configure Section 1

Placeholder for the "Body" field

+ Add block

+ Add section

Filter by block name

▼ Design

— Line Separator

| | Columns

▢ Tabs

■ Button

► Media

► Text

▼ Widgets

▢ Banner

▢ Link Group

▢ Simple Instagram Feed



Provus

Open Source
“kickstarter”

Packages default
components with
common content
types and features



SOUTHPORT HIGHLIGHTS



Count Recruitment

Lorem ipsum dolor sit amet



Some Manual Block 2

Lorem ipsum dolor sit amet



Some Manual Block 3

Lorem ipsum dolor sit amet



Content Model

➤ Alert

Alerts appear at the top of every page or selected pages.

➤ Article

Use *articles* for time-sensitive content like news, press releases or blog posts.

➤ Page

Use pages for your static content, such as an 'About us' page.

➤ Event

Events put on or supported by the organization.

➤ FAQ

FAQs provide a question / answer format for common questions.

➤ Landing Page

Use *Landing Pages* for home pages and other landing pages.

➤ Location

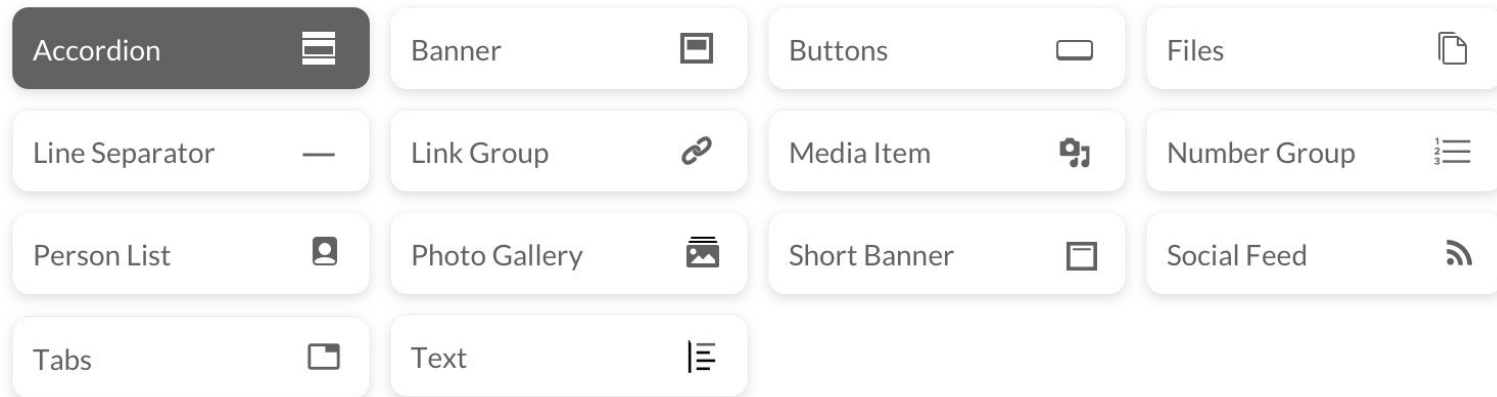
Locations are facilities, buildings, parks or other location based spaces.

➤ Person

A staff member or member of the organization.



Provus Component Library





Demo

- Pre-recorded walk through of
 - Bespoke page creation
 - Creating a new content type
 - Using new content type with list group



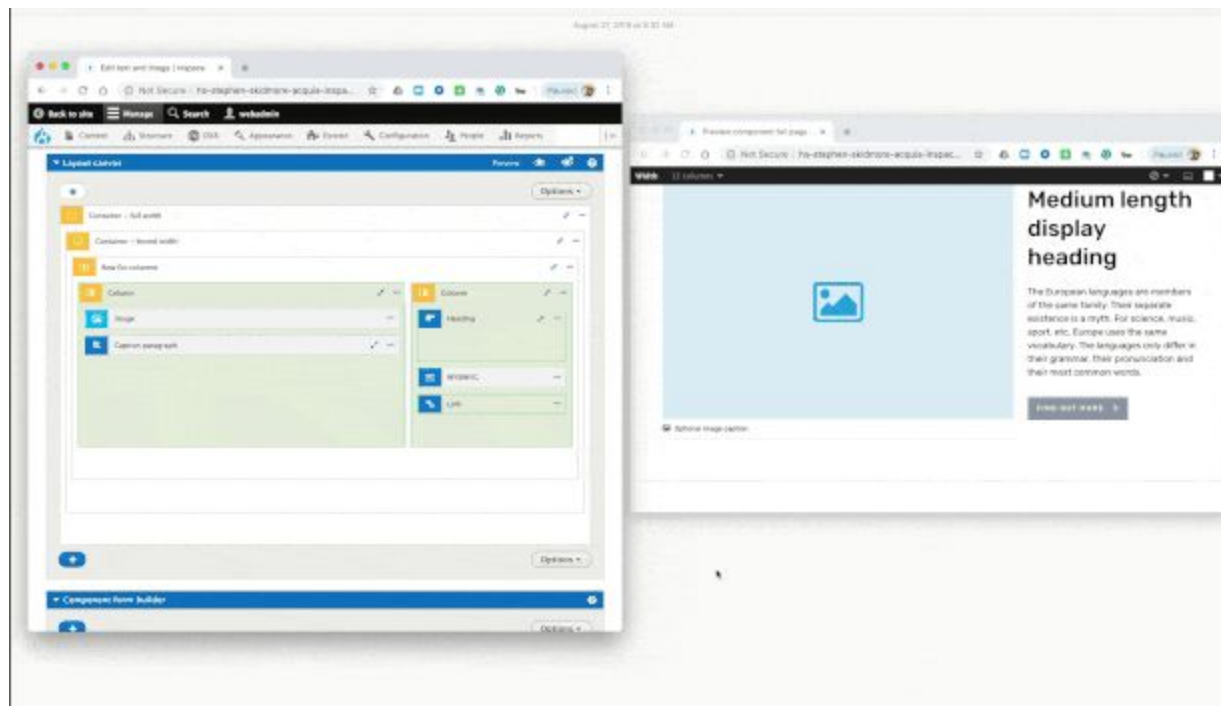
Other Examples

Other similar projects in the Drupal community:

- [Site Studio](#)
- [Gutenberg](#)
- [Varbase](#)
- Others



Site Studio





Varbase

≡ DIGITAL NEWS

| f t G+ in | Q LOGOUT

360
DIGITAL NEWS

WORLD

BUSINESS

SCIENCE & TECH

LIFESTYLE

SPORTS

OPINIONS

IN PICTURE

VR

VIDEOS



No-deal Brexit 'worse than thought' for science

Kim Jong Nam trial: Judge rules women's lawyers must mount defense

Cape Town anger over slave quarter gentrification

Bobi Wine: Uganda's Afrobeats MP standing up to Museveni

LATEST NEWS



WORLD

Marine Le Pen's Presence
Deemed 'Disrespectful' At Web
Summit



BUSINESS

Uber's Move Into Bikes And
Food Delivery Deepens Losses



WORLD

US Arrests Iraqi Refugee
Wanted Over IS Killing



WORLD

Sweden Muslim Woman Who
Refused Handshake At Job
Interview Wins Case



WORLD

Trump's 'Dirty War' On Media
Draws Editorials In 300 US
Outlets

Change Layout Manage Content Edit Save Cancel



Drupal Gutenberg

You might have heard of this project and be wondering what it means for your workflows? Everyone, and every dozen inconsistent ways of customizing web initiatives. These content blocks make building web content easier and more intuitive.

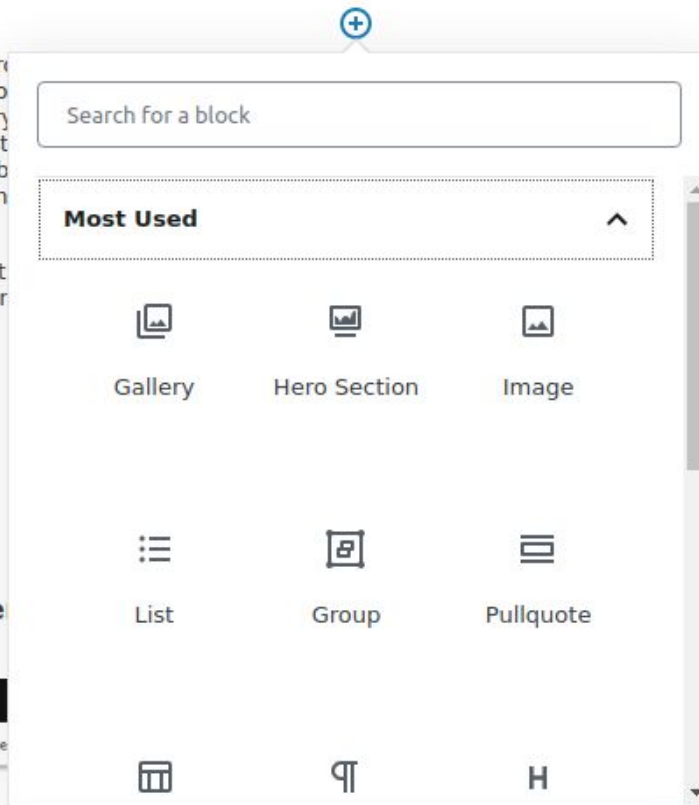
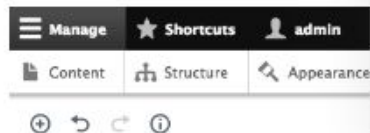
It's great that so many people talk about the power of Drupal if you know how to work with it.

Drupal revolutionized publishing — but it's not enough for your everyday content, replacing a half-dozen different ways of building content, and aligning with open standards, and aligning with open standards, and aligning with open standards, regardless of technical ability.

It's easy to unlock the power of Drupal.

Discover the new experience

Image






Provus

- Very close to Drupal core
- Deliver award winning designs (no editing css)
- Flexible content model
- Focus on reusable components
- Early “dev”



Resources

-  Drupal Twig Slack
 - <https://drupaltwig-slack.herokuapp.com>
 - #storybookjs
 - #components
- List if Drupal Component Resources
 - [Resources for Component Based Theming](#)
- [Provus](#)
- Emulsify Docs
 - <https://docs.emulsify.info>



Questions?



THANK YOU

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